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Top Secret

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basic imagery interpretation report

Soviet Mobile Missile Summary

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DEPLOYED STRATEGIC SSM FACILITIES

BE: Various

USSR

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Top Secret RUFF [REDACTED]

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25X1**SOVIET MOBILE MISSILE SUMMARY**

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SUMMARY

1. (S/D) This report updates information in NPIC report [REDACTED] on SS-20 mobile IRBM bases in the USSR. This report also includes a synopsis of significant mobile missile activity seen at two offensive missile test centers, a production facility, a nuclear weapons proving ground, and several command and control facilities.

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2. (TSR) Significant activity was observed at deployed facilities (Figure 1) during this reporting period. Two new mobile bases were identified, and there are early indications that one other former SSM launch facility may be converted to an SS-20 mobile base. Elements of two SS-20 regiments were seen in the largest field training exercise observed to date, and four other field training exercises were observed. A tenth single-bay garage, probably for training, was identified at Mozyr Mobile IRBM Base/Training Facility, an SS-20 towed canister dolly was observed aligned with a missile railcar at the Verkhnyaya Salda ICBM Rail-to-Road Transfer Point (RTP; [REDACTED]) and a loaded SS-20 transporter-erector-launcher (TEL) was observed in front of a single-bay garage at Novosibirsk Mobile IRBM Base 1. Additional activity was observed at Kapustin Yar Missile/Space Test Center SSM, Plesetsk Missile/Space Test Center SSM, Semipalatinsk Nuclear Weapons Proving Ground, and Bryansk Guided Missile Support Equipment Plant II.

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3. (U) The reporting period extends from [REDACTED] A location map, 13 annotated photographs, and three tables are included in the report.

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DISCUSSION**Deployed Complexes**

4. (TSR) Construction was begun on two new SS-20 bases (Table 1). There are indications that one other former SSM launch facility may be converted to an SS-20 base; however, this could not be confirmed during the reporting period. As of [REDACTED], 21 of the 29 bases were in the late stage of construction or complete and were assessed to be capable of maintaining an operational unit. Based on past construction practices, the 29 bases, including the remote site at Drovyanaya, will eventually contain a total of 264 single-bay garages to house SS-20 missiles on launchers. Eleven of the bases are in the western section of the USSR (Belorussia), eight are in the Ural mountain region, four are in the western section of Siberia, and six are in the eastern section of Siberia.

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5. (S/D) The two new mobile SS-20 IRBM bases under construction are at Lida MRBM Launch Site 1 [REDACTED] and Gresk MRBM Launch Site 1 [REDACTED]. Both facilities are former SS-4 launch sites. The activity at Lida was first observed on imagery of [REDACTED] when footings for a possible single-bay garage and ground scraping for a probable multibay garage were observed in the operations area. By [REDACTED] four single-bay garages and one four-bay garage were all in the early stage of construction, and by [REDACTED] an additional four-bay garage was under construction. The new base has been designated Lida Mobile IRBM Base 1 (Figure 2). On [REDACTED] three single-bay garages and three four-bay garages were identified under construction in the operations area of Gresk MRBM Launch Site 1, and by [REDACTED] three additional single-bay garages were under construction. A C-shaped command and control building was also under construction in the support area. The site has been designated Gresk Mobile IRBM Base 1 (Figure 3). The four-bay garage foundations at both Lida and Gresk are, with the exception of the additional bay, similar to those used for the three-bay garages usually seen at mobile bases. Both of these bases are in the Lida IRBM/MRBM Division of the Smolensk Strategic Rocket Forces (SRF) Army.

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6. (S/D) Construction that may indicate conversion of an SSM launch facility to a mobile IRBM base was observed at Dyatlovo MRBM Launch Site 3 [REDACTED] on imagery of [REDACTED] when ground scraping and one probable personnel bunker under construction were seen near the SS-4 launch pads. Ground scraping was also observed between the oxidizer storage area and the vehicle storage building in the support area. Dyatlovo is also in the Lida IRBM/MRBM division of the Smolensk SRF Army.

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7. (TSR) Five SS-20 field training exercises were observed—three at Drovyanaya and two at Novosibirsk. All or part of one of the exercises at Drovyanaya was observed five times—on imagery of [REDACTED]. The other two Drovyanaya exercises were observed on imagery of [REDACTED], and the exercises at Novosibirsk, on [REDACTED].

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8. (TSR) A probable prolonged large-scale SS-20 field training exercise was observed at Drovyanaya SSM Complex [REDACTED]. The exercise involved two field-deployed SS-20 regiments occupying eight training/revetment areas² and was conducted over a larger area than any previously observed exercise. The greatest distance between any two deployed launch units was 23 nautical miles (nm). Deployed launch units were moved to other training areas early in the exercise, possibly

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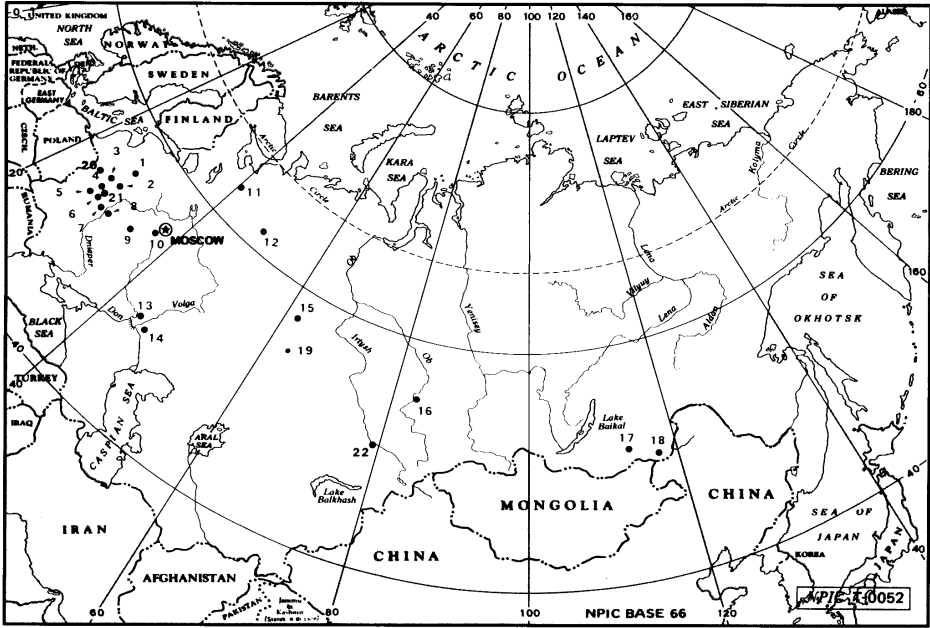


FIGURE 1. LOCATIONS OF SS-16/20 ACTIVITY IN THE USSR

Item	Installation Name
1	Polotsk Mobile IRBM Base 1
2	Polotsk Mobile IRBM Base 2
3	Postavy Mobile IRBM Base
4	Smorgon Mobile IRBM Base 1
5	Smorgon Mobile IRBM Base 2
6	Minsk Motor Vehicle and Guided Missile Support Plant
7	Kozhanovichi Mobile IRBM Base
8	Konkovichi Mobile IRBM Base
9	Mozyr Mobile IRBM Base/Training Facility
10	Rechitsa Mobile IRBM Support Base
11	Rechitsa SS-20 Remote Site 1
12	Rechitsa SS-20 Remote Site 2
13	Rechitsa SS-20 Remote Site 3
14	Bryansk Guided Missile Support Equipment Plant II
15	Serpukhov SSM Engineering Research Training Facility
16	Plesetsk Missile/Space Test Center SSM
17	Yurya Mobile IRBM Base 1
18	Yurya Mobile IRBM Base 2
19	Yurya Mobile IRBM Base 3
20	Yurya Mobile IRBM Base 4
21	Volgograd Steel and Machinery Plant
22	Krasny Barricada 221
23	Kapustin Yar Missile/Space Test Center SSM
24	Verkhnyaya Salda Mobile IRBM Base 1
25	Verkhnyaya Salda Mobile IRBM Base 2
26	Verkhnyaya Salda Mobile IRBM Base 3
27	Verkhnyaya Salda Mobile IRBM Base 4
28	Novosibirsk Mobile IRBM Base 1
29	Novosibirsk Mobile IRBM Base 2
30	Novosibirsk Mobile IRBM Base 3
31	Novosibirsk Mobile IRBM Base 4
32	Drovyannaya Mobile IRBM Base 1
33	Drovyannaya Mobile IRBM Base 2
34	Drovyannaya Mobile IRBM Base 3
35	Drovyannaya Mobile IRBM Base 4
36	Drovyannaya Mobile IRBM Base 5
37	Drovyannaya SS-20 Remote Site 1
38	Olovyanaya Mobile IRBM Base 1
39	Bobrovskiy Missile Support Rear Depot
40	Lida Mobile IRBM Base 1
41	Gresk Mobile IRBM Base 1
42	Semipalatinsk NWPG

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Table 1. Summary of SS-20 Construction at Deployed Areas This table in its entirety is classified TOP SECRET RUFF

OPERATIONS AREA										GENERAL SUPPORT AREA								Status of Construction at RTP	Remarks/Comments	
SSM	First Identified	Date Assessed as Being Operational	Date Last Imaged	Single-Bay Garage		3-Bay Garage		11-Bay Garage		Construction and/or Modification	11-Bay Garage (66 x 18m)		Tech Support Bldg		High 2-Bay Bldg		Clerestory Bldg			
Installation Name				Comp	Ucon	Comp	Ucon	Comp	Ucon	Comp	Number	Construction Comp	Number	Construction Comp	Number	Construction Comp	Number	Construction Comp		
EASTERN USSR	Dnyavanaya Mobile IRBM Base 1			9	—	3	—	1	—	Yes	2	Yes	0*	—	0*	—	0*	—	Complete	Personnel shelters ucon near athletic field; mockup. Personnel shelters ucon in spt area; 2 admin/personnel bldgs ucon in spt area. Personnel shelters ucon in spt area. Temporary construction spt area being raised; mockup sliding-roof and 3-bay garages. Personnel shelters ucon near spt area; 3 used multi-bay garages ucon near spt area. 2 SS-11 canisters in spt area.
	Dnyavanaya Mobile IRBM Base 2			9	—	3	—	0	—	Yes	2	Yes	0*	—	0	—	0	—		
	Dnyavanaya Mobile IRBM Base 3			9	—	3	—	0	—	Yes	2	Yes	0*	—	0	—	0	—		
	Dnyavanaya Mobile IRBM Base 4			0	9	0	3	0	—	No	2	No	0*	—	0	—	0	—		
	Dnyavanaya Mobile IRBM Base 5			9	—	3	—	0	—	No	2	No	0*	—	0	—	0	—		
	Dnyavanaya Remote Site 1			3	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—		
CENTRAL USSR	Olavayana Mobile IRBM Base 1			0	9	0	3	0	0	No	0	0	0	—	0	—	0	—	Complete	Unid construction near the entrance to the operations area. 4 SS-11 canisters in spt area. Personnel shelters ucon in spt area. 2 personnel/admin bldgs ucon in spt area. 4 SS-11 canisters in spt area; personnel shelters ucon in operations area. 5 SS-11 canisters near spt area. Rifle range ucon near spt area. Small prob personnel bunker ucon at entrance to operations area.
	Novosibirsk Mobile IRBM Base 2			9	—	3	—	0	—	Yes	2	Yes	0*	—	0*	—	0*	—		
	Novosibirsk Mobile IRBM Base 3			9	—	3	—	0	—	No	2	Yes	0*	—	0	—	0	—		
	Novosibirsk Mobile IRBM Base 4			9	—	3	—	0	—	Yes	1	No	0*	—	—	—	—	—		
	Verkhnyaya Salda Mobile IRBM Base 1			9	—	3	—	0	—	Yes	2	Yes	0*	—	0*	—	0*	—		
	Verkhnyaya Salda Mobile IRBM Base 2			9	—	3	—	0	—	Yes	2	Yes	0*	—	0	—	0	—		
	Verkhnyaya Salda Mobile IRBM Base 3			9	—	3	—	—	—	—	1	Yes	0*	—	—	—	—	—		
	Verkhnyaya Salda Mobile IRBM Base 4			0	9	0	3	0	0	No	2	Yes	—	—	—	—	—	—		
	Yurya Mobile IRBM Base 1			9	—	3	—	0	—	Yes	1	Yes	0*	—	0*	—	0*	—		
	Yurya Mobile IRBM Base 2			9	—	3	—	0	—	Yes	2	Yes	0	—	0	—	0	—		
	Yurya Mobile IRBM Base 3			0	7	0	3	0	0	No	1	No	—	—	—	—	—	—		
	Yurya Mobile IRBM Base 4			0	7	0	3	0	0	No	0	0	—	—	—	—	—	—		
WESTERN USSR	Koskovitski Mobile IRBM Base			9	—	3	—	1	—	Yes	2	Yes	1	Yes	1	Yes	1	Yes	Complete	2 admin/personnel bldgs ucon in spt area. 2 personnel bldgs and 1 vehicle maintenance bldg ucon in spt area. 1 multi-story bldg ucon near warhead storage bunker. Footings for various bldgs throughout spt area.
	Kozhukovskiy Mobile IRBM Base			9	—	3	—	1	—	Yes	2	Yes	1	Yes	1	Yes	1	Yes		
	Mosyr Mobile IRBM Base Training Facility			9	—	3	—	0	—	Yes	3	Yes	1	Yes	1	Yes	1	Yes		
	Postavy Mobile IRBM Base			9	—	3	—	0	—	Yes	2	Yes	1	Yes	1	Yes	1	—		
	Smorgon Mobile IRBM Base 1			9	—	3	—	0	—	Yes	2	Yes	1	Yes	1	Yes	0	—		
	Smorgon Mobile IRBM Base 2			0	9	0	3	—	—	No	1	No	0	—	0	—	0	—		
	Rechitsa Mobile IRBM Base			—	—	—	—	—	—	—	2	Yes	1	Yes	1	Yes	1	No		
	Rechitsa Remote Site 1			3	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—		
	Rechitsa Remote Site 2			3	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—		
	Rechitsa Remote Site 3			3	—	—	—	—	—	Yes	—	—	—	—	—	—	—	—		
	Polotsk Mobile IRBM Base 1			9	—	3	—	0	—	Yes	2	Yes	1	No	1	No	1	No		
	Polotsk Mobile IRBM Base 2			9	—	3	—	0	—	No	1	Yes	0	—	0	—	0	—		
	Lida Mobile IRBM Base 1			0	4	0	2**	0	—	No	0	—	0	—	0	—	0	—		
	Greek Mobile IRBM Base 1			0	6	0	3**	0	—	No	1	No	0	—	0	—	0	—		

*Indicates change from
**The former SS-7 ICBM complexes in the central and eastern USSR currently have nuclear payload handling facilities under construction at their RTPs; these areas consist of high two-bay, technical support, and clerestory buildings.
***Four-bay garages.

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indicating that the Soviets would move launchers to escape detection and enhance survivability. The capability to sustain field-deployed operations was evident in this exercise. One of the launch units was probably field deployed for at least seven days, the longest period to date that an SS-20 unit has been observed in the field. One regiment probably initially deployed a regimental command/control and communications (C3) unit and three launch units, two of which subsequently moved to other training positions. This group was probably joined later by three launch units and a C3 unit from a second regiment. On [REDACTED] three training areas were occupied by probable SS-20 launch vehicles. Two of these three training areas had not previously been associated with SS-20 activity. One battalion-sized launch unit was in Drovyanaya SS-20 Field Training Area (FTA) 3B-Rvt [REDACTED], another was on a side road outside Mobile Base 1, and one was in an area near the RTP adjacent to FTA RA-Rvt [REDACTED]. One probable C3 unit was near Mobile Base 1. A battalion-sized launch unit was off the road near Mobile Base 5 on [REDACTED] when only the extreme southern portion of Drovyanaya SSM Complex was imaged. The lack of coverage precluded monitoring the SS-20 units observed on imagery of [REDACTED] partial coverage of Drovyanaya SSM Complex was obtained [REDACTED] and complete coverage was [REDACTED]. Two training areas were observed occupied on the [REDACTED] and one battalion was in training. Later analysis of the [REDACTED] revealed the largest scale SS-20 field training exercise observed to date, with at least two regiments in the field simultaneously occupying eight revetment/training areas. One of the [REDACTED] training areas and the [REDACTED] training area remained occupied. Four of the eight areas occupied on [REDACTED] were new training areas. The four consisted of two newly occupied areas, which had not previously been associated with the SS-20, and the two newly occupied areas observed on imagery of [REDACTED] Training was observed in the following areas (Figure 4):

- a. FTA 2A-Rvt [REDACTED]
- b. an area outside Mobile Base 5 (first occupied on [REDACTED])
- c. FTA 3D-Rvt [REDACTED]
- d. FTA 1D-Rvt [REDACTED]
- e. FTA 1C-Rvt [REDACTED]
- f. an area outside Mobile Base 1 (first occupied on [REDACTED])
- g. a new area approximately 3 nm west of the RTP; and
- h. a new area approximately 7 nm north of the RTP.

On [REDACTED] when only a portion of the Drovyanaya SSM Complex was imaged by the [REDACTED], the areas outside Mobile Bases 1 and 5 remained occupied. On [REDACTED] over the entire Drovyanaya SSM Complex was obtained, six areas were occupied. The area outside Mobile Base 5 and FTA 2A-Rvt were unoccupied. Extensive [REDACTED] did not reveal any occupied training areas and indicated that the exercise was over.

9. (TSR) On [REDACTED] a probable SS-20 regimental-level field training exercise was observed at Drovyanaya. Two areas approximately 1.5 and 2.7 nm northwest of Drovyanaya Mobile IRBM Base 5 were occupied by launch battalions. At least six to eight camouflaged vehicles were in each area. A C3 unit consisting of seven heavily camouflaged vehicles was at FTA 3A [REDACTED] an SS-20 field training exercise involving five camouflaged vehicles was observed at FTA 3B-Rvt [REDACTED]

10. (TSR) On imagery [REDACTED] an SS-20 field training exercise was observed 0.3 nm east of the Novosibirsk IRBM RTP [REDACTED]. The exercise involved at least five camouflaged SS-20 vehicles and a tent. No additional SS-20 activity was observed. This was the first sighting of SS-20 training near the RTP since [REDACTED] and the first observation of SS-20 field training at the Novosibirsk SSM Complex [REDACTED] an SS-20 field training exercise was observed for the first time at Novosibirsk SSM Launch Position 1 [REDACTED]. At least four camouflaged vehicles and four tents were around the loop road of this dismantled SS-7 launch site.

11. (S/D) On imagery of [REDACTED] an SS-20 single-bay garage was identified under construction at Mozyr Mobile IRBM Base/Training Facility. The garage (Figure 5) is adjacent to the clerestory building in the [REDACTED] and was in the midstage of construction. This is the tenth single-bay garage at this base and the first time that a single-bay garage has been constructed in the [REDACTED] of a deployed SS-20 base. The garage was in an early stage of construction on [REDACTED]. The construction at Mozyr closely resembles the activity at Serpukhov SSM Engineering/Research/Training Facility, where a single-bay garage was constructed in early 1979. Serpukhov is associated with [REDACTED]. It is possible that the garages at both Mozyr and Serpukhov may be related to payload-associated training.

12. (S/D) On [REDACTED] an SS-20 towed canister dolly was aligned with a missile railcar at the Verkhnyaya Salda RTP (Figure 6). Towed canister dollies have been observed in the operations and support areas of SS-20 mobile bases, suggesting that this piece of equipment will be used to transport an SS-20 missile canister between the RTP and the mobile bases.

13. (S/D) On imagery of [REDACTED] a loaded SS-20 TEL was observed in front of a single-bay garage in the operations area of Novosibirsk Mobile IRBM Base 1 (Figure 7). The front doors were open on the single-bay garage, and a small truck was next to the TEL. The canister was net covered; however, the excellent interpretability of the imagery allowed accurate mensuration. The overall length of the canister was [REDACTED] indicating that the domed end cap was missing. This is the first identification of a loaded SS-20 TEL at Mobile IRBM Base 1.

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Kapustin Yar Missile/Space Test Center SSM

14. (S/D) All SS-20-associated facilities and crew training areas were seen during the reporting period. Significant activity consisted of transloading of SS-20 vehicles/equipment in the Missile Receiving/Inspection/Storage Area [] prelaunch activity at Launch Site 1C [], and the construction of SS-20 vehicle mockups in the Bivouac/Troop Training Area []. Also, SS-20 vehicles were observed in the General Support Area [] and three of the six SS-20 crew training areas. New construction during the period included footings for sheds to cover sections of the rail line in the Missile Receiving/Inspection/Storage Area. Eight SS-20 launches took place at the test center during the reporting period.³⁻¹⁰

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25X1**Launch Site 1C**

15. (TSR) Prelaunch activity was seen near launch pad 1C-3 on imagery of []. Canvas-/net-covered SS-20 vehicles, consisting of a TEL with canister, a probable [] van truck, and a probable MAZ-543 missile support van (MSV), were observed. Six canvas-covered probable SS-20 vehicles were also seen on [], approximately 60 kilometers west of the rangehead, near Kapustin Yar Instrumentation Site 7 []. By [] an expended SS-20 canister had been placed in the canister boneyard area at Launch Pad 1C-2. Prelaunch activity was again seen on imagery of [] when three and possibly four canvas-/net-covered SS-20 vehicles were present. On imagery of [] one TEL and two MAZ-543 MSVs, all canvas/net covered, were seen near the single-bay garage; by [] all three vehicles had departed the area. Construction on the three-bay garage had been completed by early August. The three-bay garage is cable connected to the single-bay garage.

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25X1**Missile Receiving/Inspection/Storage Area**

16. (TSR) From June through August, SS-20 vehicles were identified in the transshipment area of this facility. On imagery of [] four possible TELs and eight other SS-20-associated vehicles (all canvas covered), were seen on flatbed railcars. On imagery of [] five canvas-covered probable TELs were seen on flatbed railcars, and on [] elements of an SS-20 regiment, including six TELs, three [] van trucks, and three MAZ-543 MSVs (all canvas covered), were on flatbed railcars (Figure 8). Additionally, a probable SS-20 C3 unit was parked in the missile support equipment holding area near the transshipment area.

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17. (S/D) In early June, construction was started on sheds to cover sections of the railspur in the transshipment area. Footings were under construction on either side of a railspur that serves a high-bay building. By [] additional footings had been seen in an area where SS-20 vehicle transloading takes place.

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Bivouac/Troop Training Area

18. (TSR) On [] four SS-20 vehicle mockups, one partially completed mockup, one canvas-covered object, and one possible canvas-/net-covered SS-20 vehicle were in the SS-20 battalion-sized training area of this facility. The five mockups, reported in the previous summary¹ as MAZ-type vehicles, have remained in place during this reporting period. All five mockups have tires placed along the sides, giving them a more realistic appearance. By [] a drive-through tent had been erected over a road in the training area; the tent remained there during the reporting period. On [] one of the mockups was covered with canvas. On imagery of [] one probable TEL, a MAZ-543 MSV, and a [] van truck (all canvas covered) were seen north of the five mockups. On [] a probable canvas-covered SS-20 vehicle and two other canvas-/net-covered objects/vehicles were near the mockup display (Figure 9). Additional activity at this facility included the construction of a large, fence-secured, possible drive-in bunker north of the probable command and control silo.

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25X1**General Support Area**

19. (S/D) On [] four canvas-/net-covered SS-20 vehicles and a helicopter were in an area immediately southeast of the facility. Construction continued on the clerestory building, and the ten-bay garage was almost externally complete.

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Crew Training Areas

20. (S/D) Crew training was observed in three of the six SS-20 crew training areas. In Crew Training Area 1 [] two SS-20 TELs, five SS-20 support vehicles (all canvas/net covered), and one possible BTR-60 or -70 armored personnel carrier were discernible. Two probable SS-20 TELs and six SS-20 support vehicles were in Crew Training Area 5 [] and seven personnel tents were present on []. Two canvas-/net-covered SS-20 TELs (one with a canister) and at least four canvas-/net-covered SS-20 support vehicles were discernible in tree cover in Crew Training Area 2 [].

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21. (S/D) No vehicle activity was discernible in Crew Training Areas 3 [] 4 [] [] during the reporting period.

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Plesetsk Missile/Space Test Center SSM

22. (S/D) All four mobile-missile-associated bases—Mobile ICBM Facilities 1 [redacted] and 2 [redacted] and ICBM Launch Test Sites 5 [redacted] and 6 [redacted]—were seen during the reporting period. At Mobile Facility 1, two of the buildings previously reported under construction¹ had been completed; at Mobile Facility 2 between [redacted] construction was started on two SS-16/-20 vehicle mockups in the operations area; and at Launch Site 5, construction was continuing at a slow pace on the high two-bay probable payload handling building. No significant activity or construction was observed at Launch Site 6.

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23. (TSR) Between [redacted], a rectangular framework covered with camouflage canvas/netting was erected over a rail siding at the ICBM RTP [redacted]. The structure is [redacted]. One end of the railspur has been covered with earth, probably to facilitate vehicle access for transloading operations.

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Single-Bay Garage Production

Bryansk Guided Missile Support Equipment Plant II

24. (S/D) Stationary end sections, two of which are used in each completed single-bay garage, were last observed at this plant on coverage of [redacted]. Stationary end sections have probably been fabricated since that date but shipped at such frequent intervals that they have not been imaged.

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25. (S/D) During the current reporting period, sliding-roof sections for a minimum of nine garages were fabricated, and sliding-roof sections for a minimum of 12 garages were shipped out of the plant (Table 2).

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Table 2.
Minimum Number of SS-20 Single-Bay Garages
Fabricated at and Shipped from Bryansk Guided
Missile Support Equipment Plant II

This table in its entirety is classified SECRET/WNINTEL

Dates of Usable Coverage	Number of Days Between Usable Coverages	Fabricated		Shipped	
		Complete Garages*	Incomplete Garages	Complete Garages*	Incomplete Garages
[redacted]	15	0	2	0	4
	14	0	7	0	5-6
	17	0	0-1	0	3
	Total	0	9-10	0	12-13
Garages fabricated and shipped, [redacted]*		9-10		12-13	
Garages fabricated and shipped prior to [redacted]		249-282		245-273	
Garages fabricated and shipped since Apr 76		258-292		257-286	

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*Includes two stationary end sections and eight sliding-roof sections.

**No usable imagery of the plant was acquired between [redacted]

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SS-16/-20 Command and Control

29. (TSR) Significant command and control activity observed during the reporting period included the identification of a possible PARK DRIVE mobile communications satellite unit at an SS-20 field exercise, the SS-20-related modification of the command post/bunker at Olovyannaya, the identification of a set of probable TWIN EAR antennas at the communications satellite station near the Drovyanaya command post/bunker, the construction of a C-shaped command and control building at Verkhnyaya Salda Mobile IRBM Base 4 and Gresk MRBM Regimental Command Post/Bunker [] and the completion of control buildings at three mobile IRBM bases.

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30. (TSR) A possible PARK DRIVE mobile communications satellite unit was observed at an SS-20 mobile missile field training exercise 1 nm east of Drovyanaya Mobile IRBM Base 3 on imagery of [] Communications equipment identified with the PARK DRIVE included three probable MSVs (one with a whip antenna) and one freestanding antenna mast. This is the first time a PARK DRIVE has been observed with deployed SS-20 equipment.

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31. (TSR) Modification of the Olovyannaya ICBM Complex Command Post/Bunker [] continued during the reporting period. One lattice tower had been erected, and two more were on the ground near the bunker (Figure 11). Three square excavations, probably for hardened Washer antennas, were between the administration building and the bunker. Two arch-roofed bunker sections were visible in a large excavation on the northwest side of the bunker. Footings for a possible new fishbone antenna were observed in the antenna field.

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32. (TSR) A set of probable TWIN EAR antennas was observed on the ground at the communications satellite station near the Drovyanaya ICBM Complex Command Post/Bunker [] Figure 12). These antennas will probably be mast mounted and used to communicate with the mast-mounted TWIN EAR antennas, oriented at [] at Drovyanaya ICBM Headquarters Radcom Receiver/Bunker/Hard []; Figure 13). The antennas at [] are oriented toward the Drovyanaya ICBM Complex Command Post/Bunker, and the antennas at 135 degrees are oriented toward the Drovyanaya ICBM Complex Command Post Alternate/Bunker [] A van-mounted TWIN EAR unit has been at the command post alternate/bunker since []

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33. (S/D) A C-shaped command and control building has been constructed at Verkhnyaya Salda Mobile IRBM Base 4. This is the first time that this type of building has been seen outside the Smolensk or Vinnitsa SRF Armies.

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Page Denied

Top Secret RUFF

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FIGURE 14. CONTROL BUILDING WITH ROOF-MOUNTED ANTENNA ARRAY AT NOVOSIBIRSK MOBILE IRBM BASE 4

34. (TSR) A C-shaped command and control building is also under construction near the Gresk MRBM Regimental Command Post/Bunker. The construction of a command and control building near a command post/bunker is unusual. In the past, the C-shaped command and control buildings have been seen only at bases which did not have regimental command posts/bunkers. The Gresk MRBM Regimental Command Post/Bunker has not undergone SS-20-related modification but does have a newly installed pair of frequency-diverse horizontal dipole antennas. The antennas were completed in August 1979. At all other bases, either the command post/bunker has been modified or the C-shaped building has been completed prior to the construction of new antennas.

35. (S/D) Control buildings with a roof-mounted antenna array have been completed in the support areas of Novosibirsk Mobile IRBM Base 4 (Figure 14), Verkhnyaya Salda Mobile IRBM Base 3, and Yurya Mobile IRBM Base 3. Lattice towers have been erected and cable connected to the control buildings at Verkhnyaya Salda and Novosibirsk but have not yet been identified at the Yurya base. This roof-mounted antenna array, which has been identified on the control buildings in the Vladimir, Omsk, Orenburg, and Chita SRF Armies, has been designated the YU-EL-01 (Table 3).

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Table 3. Command and Control Developments at Deployed SS-16/-20 Associated Facilities as of [REDACTED] This table in its entirety is classified TOP SECRET RUFF

		NEW SS-16/-20-RELATED ANTENNAS										PRESENT ANTENNA INVENTORY																				Comments
		Active - Deactivated	Under Construction	30-Meter Lattice Towers	Rear-Mounted Arrays (U/E/EL/D)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped Hq/Admin Bldg	Small C-Shaped Bldg	Rectangular C&C Bldg w/Small C-Shaped Bldg	Bunker Modification	Yes/No/Completed	Communications Station	TWIN EAR Unit Regularly Seen							
CHITA SRF ARMY																																
Drovyannaya ICBM Cplx																																
CP/Bnk [REDACTED]	A	4	—	—	2	—	—	—	—	—	—	6	—	3	—	—	—	1	—	—	—	Comp	Type B*	No			Trenching & excavations observed near comms satellite bldg					
CP/Alt/Bnk [REDACTED]	A	2	—	—	—	—	—	—	—	—	—	2	—	4	—	—	—	3	—	—	—	No	—	Yes			Parking apron for TWIN EAR ant still ucon					
Rad Rcvr [REDACTED]	U	2	—	—	—	—	—	—	—	2*	—	3	3	—	—	—	—	—	—	—	—	Yes	—	No			2 sets of mast-mounted TWIN EAR ants erected					
Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	4	—	8	—	—	—	—	—	—	*	—	No			Facility now completed					
Mobile Base 1 [REDACTED]	A	2	Yes	—	—	—	—	—	—	2	—	2	—	—	—	—	—	2	—	—	—	—	—	—	*		Occasionally seen					
Mobile Base 2 [REDACTED]	A	2	Yes	—	—	—	—	—	—	1	—	2	—	—	—	—	—	1	—	—	—	—	—	—	No							
Mobile Base 3 [REDACTED]	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	No							
Mobile Base 4 [REDACTED]	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No							
Mobile Base 5 [REDACTED]	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	No							
Olovyannaya ICBM Cplx																																
CP/Bnk [REDACTED]	U	1*	—	—	—	—	—	—	—	—	—	1	1	3	—	—	—	2	—	—	—	Yes	Type B	No			2 excavations for new lattice towers					
CP/Alt/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	2	4	—	—	—	5	—	—	—	No	—	No								
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	2	1	3*	—	—	2	1	—	—	—	No*	—	No			1 FISHBONE ant removed; 2 new bldgs ucon in ant field					
Rad Xmtr NE [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	4	—	8	—	—	—	—	—	—	No	—	No								
Rad Xmtr SW [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	2	6	—	6	—	2	—	—	—	—	No	—	No								
Mobile Base [REDACTED]	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No							
VINNITSA SRF ARMY																																
Mozyr MRBM Div																																
CP/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	2*	—	—	2	—	—	—	2	3	—	—	—	Comp	Type A	No			2 hardened WASHER ants					
CP/Alt/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	4	—	—	—	2	3*	—	—	—	No	—	No			2 masts support FORK REST ants					
Rad Rcvr [REDACTED]	A	—	—	1	—	—	—	—	—	—	—	6	—	—	2	2	2*	—	—	—	—	No	—	No			2 masts support FORK REST ants (Dec 1977 imagery)					
Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—	No								
Mobile Base 1 [REDACTED]	A	—	No	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	Ucon	—	—	No			Located 3.5 nm SW of div CP & rcvr					
Konkovich MRBM Regt																																
CP/Bnk [REDACTED]	A	—	—	1	—	—	—	—	—	3	—	—	4	—	—	—	—	1	—	—	—	*	No	No	No		Bldg constructed at end of bunker & ants erected					
CP/Alt/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No								
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No								
Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	8	—	—	1 prob	—	—	—	—	—	No	No	No								
Mobile Base [REDACTED]	A	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ucon	—	—	—	No			Mobile base collocated with rcvr & CP					
Kozhanovich MRBM Regt																																
CP/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	—			This facility is not the regt CP/bnk & prob never functioned as such					
CP/Alt/Bnk [REDACTED]	A	—	—	2	—	—	—	—	—	1	—	—	4	—	—	—	—	3	—	Ucon	1*	No	No	No	—		Ants by C-shaped C&C bldg listed under rcvr totals					
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	—								
Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	4	—	—	—	2	—	—	—	—	No	No	No								
Mobile Base [REDACTED]	A	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		Mobile base collocated with rcvr & CP					
Gomel MRBM Regt																																
CP/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	No	No	No								
CP/Alt/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	2	—	—	2	1	5*	—	—	—	No	No	No			2 masts support FORK REST ant					
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	8	—	—	—	4	—	3*	—	—	No	No	No			3 FORK REST ants					
Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No								
Mobile Base* [REDACTED]	U	—	No	—	—	—	—	—	—	—	—	—	2*	—	—	—	—	—	—	Ucon	Comp	Comp	—	—	No		Rechitsa Mobile IRBM Spt Base; ants located by C-shaped C&C bldg					
OMSK SRF ARMY																																
Novosibirsk ICBM Cplx																																
CP/Bnk [REDACTED]	A	2	—	—	1	—	—	—	—	1	—	4	2	1	—	—	—	2	—	*	—	—	Yes	—	—		Foundation in spt area					
CP/Alt/Bnk [REDACTED]	A	1	—	—	2	—	—	—	—	2	—	1	2	2	—	—	—	1	2*	—	—	—	—	—	—		1 mast supports FORK REST ant					
Rad Rcvr [REDACTED]	A	2	—	7	—	6	—	—	—	1	—	2	7	—	6	—	—	1	—	—	—	No	—	No								
Rad Xmtr [REDACTED]	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	No							
Mobile Base 1 [REDACTED]	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	No							
Mobile Base 2 [REDACTED]	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	No							
Mobile Base 3 [REDACTED]	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	No							
Mobile Base 4 [REDACTED]	U	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	No							
SMOLENSK SRF ARMY																																
Postavy MR/IRBM Div																																
CP/Bnk [REDACTED]	A	1	—	3	—	—	—	1	—	—	—	1	5	—	—	1	—	3	—	—	—	Comp	No	Yes	No		Presently undergoing modification					
CP/Alt/Bnk [REDACTED]	A	2	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	Yes	No	No								
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No								
Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	9	—	—	2	—	6	—	—	—	—	No	No	No								

*See comments.

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Table 3. (Continued)

			NEW SS-16/-20-RELATED ANTENNAS										PRESENT ANTENNA INVENTORY										Comments					
			Active - Deactivated Under Construction Tower	30 Meter Lattice Tower	Roof-Mounted Arrays (YU-CL-01)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped Hq/Admin Bldg	Small C-Shaped	Rectangular C&C Bldg w/ Small C-Shaped Assoc Bunker Modification	Yes/No/Completed		Significant Situations	TWIN EAR Unit	Regularly Seen		
Postavy MRBM Regt	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	—	—	2	—	—	—	—	—	—	2	—	—	—	—	—	1	Comp	—	—	—	Comp	No	No	No	Facility deactivated
Mobile Base [REDACTED]			A	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes	Mobile base collocated with regt CP & rcvr	
Smorgon MRBM Regt	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	—	—	2	—	—	—	—	—	—	2	—	—	—	—	—	—	1	—	—	—	Comp	No	No	No	
	Rad Rcvr [REDACTED]	Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No	No	
Mobile Base 1 [REDACTED]			A	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 2 [REDACTED]			U	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ucon	—	—	—	—	No	
Polotsk MRBM Regt	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	—	—	2	—	—	—	—	—	—	2	—	—	—	—	—	—	3	—	—	—	Yes	No	No	No	
	Rad Rcvr [REDACTED]	Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	8	—	—	—	—	—	—	—	—	—	—	No	No	No	No	
Mobile Base 1 [REDACTED]			A	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	Polotsk/Dina MRBM Regt Xmtr; mast supports a FORK REST ant
Mobile Base 2 [REDACTED]			U	—	No	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	Ucon	—	—	—	—	No	
Lida MRBM Div	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1	—	—	—	No	No	No	No	
	Rad Rcvr [REDACTED]	Rad Xmtr [REDACTED]	A	—	—	—	—	—	—	—	—	—	2	—	2*	—	—	—	—	2	—	—	—	No	No	No	No	Double rhombic antennas
	Rad Xmtr [REDACTED]		A	—	—	—	—	—	—	—	—	—	10	—	—	—	4	—	2	—	—	—	—	No	No	No	No	
Lida MRBM Regt	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	2	—	—	—	2	1*	2	—	—	—	—	—	—	—	No	At LS-2 Type B
	Rad Rcvr [REDACTED]		A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 1 [REDACTED]			U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	At LS-1
Gresk MRBM Regt	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	—	—	2	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Rad Rcvr [REDACTED]		A	—	—	—	—	—	—	—	—	—	4	—	—	—	2	1*	—	—	—	—	—	—	—	—	—	Type B
Mobile IRBM Base 1 [REDACTED]			U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Ucon	No	No	No	No	Mobile base collocated with CP & rcvr	
ORENBURG SRF ARMY																												
Verkhnyaya Salada ICBM Cplx																												
	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	7	—	5	1	—	—	—	—	9	5	1	—	—	—	—	1	—	—	—	Comp	No	No	No	Currently undergoing modification	
	Rad Rcvr [REDACTED]		A	—	—	—	—	—	—	—	—	—	2	2	—	—	2	2	5	—	—	—	—	No	No	No		
	Hq Spt Rcvr [REDACTED]		A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No	Facility prob deactivated	
	Rad Xmtr [REDACTED]		A	—	—	—	—	—	1	—	—	—	7	—	3	1	—	—	4	—	—	—	Ucon	No	No	No	2 FORK REST ants	
Mobile Base 1 [REDACTED]			A	2	Yes	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 2 [REDACTED]			A	2	Yes	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 3 [REDACTED]			U	2	Yes	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 4 [REDACTED]			U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	No	
VLADIMIR SRF ARMY																												
Yurya ICBM Cplx																												
	CP/Bnk [REDACTED]	Rad Rcvr [REDACTED]	A	7	—	4	1	—	—	—	—	9	4	1	—	—	—	—	2*	—	—	—	Ucon	No	No	No	Bunker mod underway; 2 new bks ucon near CP/bnk	
	Rad Rcvr [REDACTED]		A	—	—	—	—	—	—	—	—	—	8	—	—	—	2	—	2*	—	—	—	—	No	No	No	2 FORK REST ants	
	Rad Xmtr [REDACTED]		A	—	—	—	—	—	—	—	—	—	10	—	1	—	—	—	6*	—	—	—	—	No	No	No	3 FORK REST ants; 1 R-400 ant	
Mobile Base 1 [REDACTED]			A	2	Yes	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 2 [REDACTED]			A	2	Yes	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 3 [REDACTED]			U	2	Yes	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	
Mobile Base 4 [REDACTED]			U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	

*See comments.

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REFERENCES

IMAGERY

(TSR) All applicable KEYHOLE imagery from [redacted] was used in the preparation of this report. 25X1

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REQUIREMENT

[redacted]

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(S) Comments and queries regarding this report are welcome. They may be directed to the following points of contact in the Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC:

Section of Report	Extension
[redacted]	

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[redacted]

Top Secret

[REDACTED]
[REDACTED]

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